



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

# Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO040267	ACI001-VC	1	1	Net 30	M303R1.000	303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft				12	7/11/2018	12		S089469	Stock	7/5/2018	\$ 8.70 / ft	1		\$104.43	Acier Ouellette Inc.
		3	A1		MT-A513-T- 0.8750W0.120	A513 Seamless Alloy Steel Round Tubing 0.875" dia. x 0.120" Wall				100		107		S089470	Stock	7/5/2018	\$ 2.36 / ft	1		\$252.47	Acier Ouellette Inc.
		5	A1		M304B0.500X012.000	304 Bar .500 X 12.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				6		6		S089471	Stock	7/5/2018	\$ 86.95 / ft	1		\$521.70	Acier Ouellette Inc.
		6	A1		M6061T6S1.750X10.000	6061T6 SHEET 1.750 X 10.000 : MATERIAL: 6061- T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft				24		24		S089472	Stock	7/5/2018	\$ 22.16 / ft	1		\$531.80	Acier Ouellette Inc.

7/6/2018

Print

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Past Days	Total	Supplier Name
		7 A			M4140H-R0.375	4140 Round Bar .375 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434- BC/-A193-03- GRADE B7/-A29- 03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft						37		S089473	Stock	7/5/2018	\$ 1.92 / ft	1	\$70.61	Acier Ouellette Inc.
Total:										166		186								\$1,126.99

Plex 7/6/2018 8:55 AM dart.Tollis.Andrew



# ACIER OUELLETTE INC.

935, Boul. du H vre  
Salaberry de Valleyfield (Qu bec) J6S 5L1  
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

# DELIVERY - CLIENT

CO00096399

## Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

## Shipped to

DART AEROSPACE LTD

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N   
Date  
Delivery date  
Your order N   
Processed by  
Salesman  
Carrier  
Credit Terme

CLI0001056  
2018/06/20  
2018/07/03  
040267  
Eric Kaehlert  
OUELLETTE VALLEYFIELD  
Net 30 Days

Product Description	Weight	Qty	UM	PCS NB				Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND SS 1 303 (R) RSS-1303 1 X 12' R/L ** CERTIFICATE ** LINE: 1 Heat: 620M	32.04	12.00	PI \$CLB		1 X 12' 11"						
2 TUBE MEC 0.875 OD X .120 (R) TME-0875120 5 X 20' R/L ** CERTIFICATE ** LINE: 3 Heat: 17202415	96.80	100.00	PI \$CPI		3 X 23' 10" 1 X 23' 11" 1 X 11' 11" DC.						
3 PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 1 PC 3-1/2" X 6' ** CERTIFICATE ** LINE: 4 b/o	35.73	1.75	PI2			B/O					
4 PLATE SS 1/2 SS304 HRAP RANDOM PSS-12 1 PC 12" X 6' ** CERTIFICATE ** LINE: 5 AC-17565-SUP-2018-06-26	129.98	6.00	PI2		12 X 73"						



# DELIVERY - CLIENT

CO00096399

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
Heat: 624038 <b>5 ALU PLATE 1 3/4 6061-T651 RANDOM</b> PAL-1346061-V 7458 2 PCS 10" X 12' ** CERTIFICATE ** LINE: 6 AC-17564-TH-2018-06-26 Heat: 12-5159	100.28	4.00	PI2								
<b>6 ROUND 4140 ANNEALED 3/8 (R)</b> R4140-38A 4951 3 X 12' R/L ** CERTIFICATE ** LINE: 7 ** TRANSIT ST-JEROME 26-06 ** Heat: 889039	9.02	24.00	PL_\$CLB								

**Conditions :**  
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

**Total Weight (Lbs) :** 403.85  
**NIR : R-109516-6**

Prepared By :  
CL

Verified By :  
[Signature]

Delivered By :  
[Signature]

Time

Customer's Signature

Date  
Y M D  
18 09 05



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO040267**

**Supplier:** ACI001-VC  
Acier Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**PO No:** PO040267

**PO Date:** 6/20/18

**Due Date:** 6/28/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
JUN 20 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:** quote sou0113485

## **Items**

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1 ✓ AT		M303R1.000		303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	6/28/18	12 ft ✓	0 ft 12 ft	12 ft	\$8.7025/ft AT 18/07/06	\$104.43
2		M304R3.750		304/316 Round Bar Ø3.750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE	Firmed	7/16/18	3 ft	0 ft	3 ft	\$265.00/ft	\$795.00
3 ✓ AT		MT-A513-T- 0.8750W0.120		A513 Seamless Alloy Steel Round Tubing 0.875"dia. x 0.120" Wall	Firmed	6/28/18	100 ft ✓	0 ft 100	100 ft	\$2.3595/ft AT 18/07/06	\$235.95
4		MT-4140-S-0.500X3.500		AISI 4140 Steel Sheet/Plate : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC	Firmed	6/28/18	6 ft	0 ft	6 ft	\$18.94333/ft	\$113.66

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Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5		M304B0.500X012.000		304 Bar .500 X 12.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	6/28/18	6 ft	0 ft	6 ft	\$86.95/ft	\$521.70
✓ H							✓	6 ft		At 18/07/06	
6		M6061T6S1.750X10.000		6061T6 SHEET 1.750 X 10.000 : MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft	Firmed	6/28/18	24 ft	0 ft	24 ft	\$22.158333/ft	\$531.80
✓ H							✓	24 ft		At 18/07/06	
Line Item Note PLEASE CUT BAR IN HALF 6 FT LENGTH											
7		M4140H-R0.375		4140 Round Bar .375 : AISI 4140H ROUND BAR PER AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03- GRADE B7/-A29-03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft	Firmed	6/28/18	24 ft	0 ft	24 ft	\$1.92125/ft	\$46.11
✓ H							✓	24 ft		At 18/07/06	
Grand Total:										\$2,348.65	

## Order Notes

Procurement Quality Clauses  
 A005 right of entry  
 A012 chemical and physical test report  
 A016 personnel qualification  
 A017 raw material identification (as applicable)  
 A026 certification of material conformance  
 A041 quality management system  
 A042 dart notification by supplier  
 A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.



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aperam

Correspondence address:  
Aperam Genk  
Swinnewijerweg 5, Poort Genk 7523  
3600 Genk, Belgium  
Tel. +32 (0)89 30 21 11

MILL CERTIFICATE BS EN 10204/3.1  
CERTIFICAT DE RECEPTION NF EN 10204/3.1  
ABNAHMEPRUEFZEUGNIS DIN EN 10204/3.1

N-Nr-N 16K0043312-01 V01

Certified acc. PED 2014/68/EC Annex I § 4.3 by Certification Body 0036 of TÜV SÜD Industrie Service GmbH with cert. No. 314/2007/MUC. Renounced of counter signature agreed by TÜV SÜD (9/5/2007). Approved acc. AD 2000-Merkblatt W0/TRD 100 by TÜV SÜD Industrie Service GmbH. Confirmation letter from TÜV SÜD Industrie Service GmbH of 07/05/2010 about the uniformity of coils acc. AD 2000 W2 § 4.1.1

Tech. Req.: AD 2000 W2 - AD 2000 W19 - EN 13445-2 - NR(TUV): 01 202 926/V04/1007

Manufacturer's works order number  
N° de la commande usine productrice  
Werksauftragsnummer  
80287576/02-20638/338/02

Surveyor's mark  
Cachet de l'expert  
Stempel des  
Werkssachverständigen

GNKI

Purchaser and/or consignee  
Client et/ou destinataire  
Besteller und/oder Empfänger

Purchaser's order number  
N° de commande client  
Kundenbestellnummer  
13002

Product - Produit - Erzeugnis  
SHEETS, HOT ROLLED, ANNEALED + PICKLED  
TOILES, LAMINÉES A CHAUD, RECUITS + DECAPES  
BLECHIE, WARMGEWALZT, GEGLUEHT + GEBEIZT

Customer article number  
N° article client  
Artikelnummer des Kunden  
760105078125

Steel designation  
Designation de l'acier  
Stahlbezeichnung

EN 10028-2-2008 1.4307 / 1.4301  
ASTM A 240-2015 TYPE 304L 304  
ASME SA 240-2013 TYPE 304L 304

Finish  
Présentation  
Ausführung

ID  
NO 1  
NO 1

Steelmaking process

Mode d'élaboration de l'acier - Stahlherstellungsverfahren  
Prod. process: Electric arc furnace - VOD/AOD - Continuous casting  
Proc. fabric.: Four à arc - VOD/AOD - Coulée continue  
Fertigungsablauf: Elektro-Ofen - VOD/AOD - Stranggussanlage

Any supplementary requirements

Prescriptions supplémentaires - Zusätzliche Anforderungen

Product delivery condition  
Etat de livraison du produit - Lieferzustand

Solution treated:  
Hypertempe:  
Lösungsgegl./abgeschreckt:  
1050 °C

Forced air-water/air forced-air  
Gebläse Luft-Wasser

AMS 5511-H01 -- ASTM A276 (CHEM. COMP) -- ASTM A312 (M) (CHEM. COMP) -- MAT MERCURY FREE -- NO WELD REPAIRING

Identification of the product  
Identification du produit - Identifizierung des Erzeugnisses  
MELTED IN BELGIUM, MADE IN BELGIUM

Coil n.  
N° bobine - Band Nr.  
62403821

Heat n.  
N° Coale - Schmelz Nr.  
624038

Thickness  
Épaisseur - Stärke  
12.70 mm  
0.500 "

Width  
Largeur - Breite  
2000.00 mm  
78.740 "

Length  
Longueur - Länge  
3175.00 mm  
125.000 "

Number of pieces  
Nb de pièces - Stückzahl  
24

Net weight  
Poids net - netto Gewicht  
15420 KG

CHEMICAL ANALYSIS - ANALYSE CHIMIQUE - CHEMISCHE ZUSAMMENSETZUNG

	C	SI	Mn	Ni	Cr	Mo	Ti	N	S	P										
Required - Exigé Anforderung, %mini %maxi	0.030	0.75	2.00	8.00 10.50	17.50 19.50			0.100	0.015	0.045										
Cast Analysis Analyse coulée Analyse Schmelze	0.023	0.44	1.50	8.03	18.00			0.070	0.005	0.029										
	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90

Positive material identification carried out: OK

Tests de vérification de la conformité de la nuance fournie: OK  
Verwechslungsprüfung wurde durchgeführt: OK

Location (1)

MECHANICAL PROPERTIES - PROPRIETES MECANQUES - MECHANISCHE WERTE EN ISO 6892-1 B / A-SA 370

Room temperature - Température ambiante - Raumtemperatur

Direction (2)	Required Exigé Anforderung	Yield or proof strength Limite d'élasticité Dehngrenze		Tensile strength Résistance à la traction Zugfestigkeit		Elongation after fracture Allongement après rupt. Bruchdehnung		Hardness Dureté Härte		Yield or proof strength Limite d'élasticité Dehngrenze		Tensile str. Résist. KSI Zugfestigkeit		Elongation % Allongement Bruchdehnung	
		Rp0.2%	Rp1%	Rm		A5	S0mm	HRB		Rp0.2%	Rp1%	Rm		A5	
		mini maxi													
1	T	Obtained Ergebnisse	30	36	75 102	45	50mm	92							
2	T		56	63	93	55	52	89							
			C11	C14	C12	C13	C15	C31	C16	C17	C18	C19			

Impact strength test  
Essai de résilience  
Kerbschlagzähigkeitstest

Corrosion test  
Test de corrosion  
Korrosionstest

C40 (°C)

C44

EN ISO 3651/2 - A: OK

Internal cleanliness:

A: B: C: D:

Location of the sample (1)  
Emplacement de l'échantillon  
Lage des Probeabschnittes  
1. Front - Début - Anfang  
2. Back - Fin - Ende  
3. Middle - Milieu - Mitte

The delivery is in accordance with the order  
La fourniture est conforme aux exigences de la commande  
Die Lieferung entspricht den Bestellbedingungen

Packaging list  
Avis d'expédition  
Lieferscheinnummer  
160800665-100564

Organisation Inspection  
Organisme et/ou service contrôle  
Überwachungsabteilung

Quality Department

31/8/2016

The Inspector  
Le responsable

D. Raemaekers

ZSQ701 - PS5

Der Werkssachverständige

# SPECIFICATION CONTROL DRAWING

**PURCHASE MATERIAL:** AISI 304/316 SS BAR OR AISI 304/316 SS PLATE  
(NOTE: AISI 303 NOT ACCEPTABLE)

**SPECIFICATION:** ASTM A276 OR ASTM A240  
**PART NUMBER:** M304B | TTTT | XXXX | WWW.WWWW |  
THICK | WIDTH

WHERE "TTTT" = THICKNESS IN INCHES  
AND "WWW.WWWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M304B0.500X03.000  
EG. 0.5" x 12.0" PLATE = M304B0.500X12.000

RELEASED  
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL. ADDED PLATE RELATED SPECIFICATIONS, AND EG. CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (ZN D6-1). REF PAR 08-020A	CP	09.07.15
A	NEW ISSUE	PH	05.08.10
REV.	DESCRIPTION	BY	DATE
DESIGN	PH		
DRAWN	5		
CHECKED			
MFG. APPR.	M304B		
APPROVED	TITLE		
DE APPR.	304/316 BAR/PLATE		
DATE	10.11.25		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. C	
		SHEET 1 OF 1	
		SCALE	
		NTS	
COPYRIGHT © 2005 BY DART AEROSPACE LTD			



## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 304 B2.500 x 012.000  
 DATE: 18/07/06

PO / BATCH NO.: P0040267/5089471

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 6'  
 QUANTITY INSPECTED: 6'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"  
 THICKNESS RECEIVED: 0.500"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N	AS/M A240
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	LT: 624038
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>A/P.D.</u> DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

710079  
**CERTIFICATE OF TEST**  
**CERTIFICAT D'ESSAIS**

Dart

Page 01 of 02

# 4951  
CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

Certification Date  
25-APR-2018

AC00015271  
PART NUMBER/NUMÉRO DE PIÈCE  
505914

Invoice Number  
T378710

SOLD TO: ACIER OUELLETTE INC  
VENDU À: 22 BOULEVARD J-F KENNEDY  
ST JEROME QC J7Y 4B6

SHIP TO:  
EXPÉDIÉ À:

ACIER OUELLETTE INC.  
22 BOULEVARD J F KENNEDY  
SAINT JEROME QC J7Y 4

Description: 4140/4142 CF ANN BAR  
3/8 RD X 12' R/L  
HEAT: 889039  
ITEM: 505914

ASTM A108  
Line Total: 45 LB

Specifications:  
ASTM A108 13

ASTM A331\* 00

ASTM A322

CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	CR	NI
0.42	0.97	0.0090	0.026	0.26	0.15	1.00	0.06
MO	SN	V	CB	AL			
0.18	0.0090	0.004	0.004	0.03			

RCPT: R440399

END-QUENCH HARDENABILITY (JOMINY - RC)

COUNTRY OF ORIGIN : USA

1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
57	57	57	57	57	57	57	57	56	54	50	50	18	48	47
24	28	32												
46	44	40												

GRAIN SIZE : 5 -

MATERIAL IS FREE FROM MERCURY CONTAMINATION  
NO WELD REPAIR PERFORMED ON MATERIAL  
MACRO: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut. The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

*Joanne Despres*

MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ



# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date  
25-APR-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number  
T378710

AC00015271  
PART NUMBER/NUMÉRO DE PIÈCE  
505914

SOLD TO: ACIER OUELLETTE INC  
VENDU À:

SHIP TO:  
EXPÉDIÉ À:

ACIER OUELLETTE INC.

22 BOULEVARD J-F KENNEDY  
ST JEROME QC J7Y 4B6

22 BOULEVARD J F KENNEDY  
SAINT JEROME QC J7Y 4

Description: 4140/4142 CF ANN BAR  
3/8 RD X 12' R/L  
HEAT: 889039

ITEM: 505914

ASTM A108  
Line Total: 45 LB

## COMMENTS

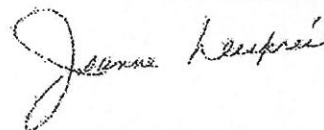
reduction ratio 292.0:1  
country of melt and origin: united states

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

**DART**

DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-BC /

-A193-03- GRADE-B7 / -A29-03 / -A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi

MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES  
DIA

EG. 7/8" ROUND BAR = M4140H-R0.875

RELEASED  
05 03 25 #

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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140H-R0.375

PO / BATCH NO.: 80040267/5089469

DATE: 18/07/06

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 36.75'

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 36.75'

SHEET SIZE ORDERED: -

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM A322
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	MT: 889039
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT/PP</u> DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# Certificate of Mill Test Results

BL VIM-000000-000

Pg 1/1

PO/Rel

Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel ou les données résultent

de l'analyse faite par un laboratoire qualifié.

SIGNE PAR:

Afin:

PART NO.



## INSPECTION CERTIFICATE № 17.120421

EN 10204 - 3.1

Consigner: KAMENSK URALSKY METALLURGICAL WORKS JOINT STOCK COMPANY 5, Zavodskaya Str., Kamensk Uralsky, Sverdlovsk Region, 623405, Russia Tel: +7 (3439) 39 54 17 Fax: +7 (3439) 39 52 49											
Buyer:					Quantity, pcs: 4						
Consignee:					Net Weight, kg: 2220						
P.O. No: VIM-841201					S.O. No: N17063						
Article No:					Item No: 1.5						
					Package No: 609317						
Description of Goods: Plates											
Grade of Product			Dimensions, inch (mm)			Requirements on the Products:					
			1.75"X48.5"X144.5" 44.450X1231.9X3670.3			Material conforms to quality of alloy: 6061 T651					
Product conforms to all requirements of: ASTM B209-14; SAE AMS-QQ-A-250/11A (2008); SAE AMS-4027 Rev. N (2014). This product conforms to European Union RoHS Directive 2011/65/EU											
Mechanical Properties											
The Condition of Tested Standards	Lot No.	Heat lot No.	HT Charge No.	Sampling direction	Tensile Strength, Rm / Cui, ksi		Yield Strength, Rp0.2% / Clenching test, ksi		Elongation, %		Hardness, HBW
					min	max	min	max	min	max	
Required				LT	42.0	-	35.0	-	8	-	-
-	646735	12-5159	D6037	LT	47.4	47.6	43.2	44.6	12.2	13.8	-
Chemical Composition, %											
Element	Silicon Si	Iron Fe	Copper Cu	Manganese Mn	Magnesium Mg	Chromium Cr	Zinc Zn	Titanium Ti			
Required	0.40 - 0.8	0.7	0.15 - 0.40	0.15	0.8 - 1.2	0.04 - 0.35	0.25	0.15	-	-	
Contents	0.66	0.32	0.15	0.04	0.9	0.05	0.23	0.10	-	-	
Element	Other Elements								Aluminum Al		
Required	Each								Total		
Contents	0.05								0.15		
Other Tests											
Method	Macro-structure	Micro-structure	UT	K1c	Electro-conductivity, IACS%	SCF	Contents H2 of metals, cm3/100gr	Raw material used for manufacturing supplied products was tested for compliance with international radiation safety regulations during incoming inspection. Russia is country of melt and manufacture. No Weld Repair!			
Result	-	-	-	-	-	-	0.17				

On behalf:

KUMZ J.S.Co.

Date:

10.06.2017

QCB Inspector

Zyryanova K.V.

Inspection Department Engineer

Alekhina N.V.



The Certificate has been agreed electronically.

Form № QAD/3-003, Revision 03

# SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL 6061-T6/T62 (6061 ALUMINUM SHEET OR PLATE)  
SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11  
OR AMS 4025 OR 4027  
OR ASTM B209

△ PART NUMBER: M6061T6S XXX X W.WWW  
THK WIDTH

WHERE "XXX" = THICKNESS (IN INCHES)  
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063  
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500  
XXX BY 4FT BY 8FT FOR SHEET

△ PREFERRED SIZE:

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG. ADD B209 SPEC (ZN D8-1). REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA  
DRAWING NO. M6061T6S  
SHEET 1 OF 1  
REV. C  
SCALE NTS  
6061-T6 SHEET/PLATE SPEC  
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RELEASED  
2018 MAR 13  
EAS 18-605

APPROVED

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061-T651.750x12.000

PO / BATCH NO.: P0040267/5089472

DATE: 18/07/06

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.750"

QUANTITY RECEIVED: 24'

THICKNESS RECEIVED: 1.750"

QUANTITY INSPECTED: 24'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM B209
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	HT: 12-5159
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT/P.O.</u> DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





North American Stainless Canada Inc.  
740 Imperial Road North  
Guelph, ON N1K1Z3  
Canada

RSS-1303

51432

17336

6870 Highway 42 East  
Chent, KY 41045-9615  
(502) 347-6000

# METALLURGICAL TEST REPORT

Certificate: 371391 11 Mail To:

Ship To:

Date: 1/15/2018 Page: 1

Customer: 007080 003

Steel: 303

Finish: CD

Your Order: MM6001

NAS Order: IN 0257533 09 Heat Treat Code: 44,554

Corrosion:

Red Ratio: 69.4 : 1

## PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw  
UNS 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/16  
AMS 5640V TYPE 1, Q35-7643 CONDITION A  
SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12b

## REMARKS:

COMPLIES W/REQUIREMENTS OF DPA 252.225-7009 EU DIRECTIVE  
2011/65/EU. ROHS. EAF+ROD+CC. NO WELD REPAIR. MELTED AND MFG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Shid # Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BJ1762 6	1.0000		1,073	144.00	11	1	

CHEMICAL ANALYSIS CHN(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# 12323  
Chemical Analysis per ASTM A751/14a

NAS Heat	CM	C %	CO %	CR %	CU %	MS %	MO %	NI %	P %
620M	US	.026	.09	17.11	.31	1.92	.268	.036	.031
S % SI %									
.3350 .37									

## MECHANICAL PROPERTIES

Product Id	1 d o i c i	MS	.2YS	UTS	RA	Elong % 4D
BJ1762 6	RL	224.0	80.28	106.52	34.99	25.11

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical  
Dept. Mgr.

KRIS LARK

1/15/2018

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR  
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A582

PART NUMBER:

M303R(D.DDD)  
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES  
EG. 0.75" ROUND BAR = M303R0.750

RELEASED  
R 2010-02-02  
MCO

B	REFORMAT DWG. ADD SPECS (ZN D8-1).	CP	10.01.05
A	NEW ISSUE	DS	01.12.20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		

DART AEROSPACE LTD	
HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M303R
TITLE	303 ROUND BAR
SCALE	NTS
REV. B	SHEET 1 OF 1
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## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 303R1-000

PO / BATCH NO.: P0040267/5289464

DATE: 18/07/06

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.00"

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: 1.00"

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/>	N	ASTM A592
CORRECT THICKNESS	<input checked="" type="radio"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	MT: 620M
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT/ID</u> DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# TPI Work Test Certificate



**TUBE INVESTMENTS OF INDIA LIMITED**  
**TUBE PRODUCTS OF INDIA - MODULE - 1**  
**POST BOX NO.4 & 18, M T H ROAD, AVADI, CHENNAI - 600054**



Customer : TC No : PAE/8C17A0113  
 Order No. : Date : 05-OCT-17

Description : PRECISION STEEL TUBES - CDW  
 Specification : ASTM A513/A513M-15 T3 C1020  
 Condition : SRA  
 Bundle No's : 017016898,017016899,017016900,017016901,017016996,017016997,017016998,017016999,017017000

Invoice No : 3002020000299  
 Invoice Date : 27-SEP-17  
 Job /Batch No : RBCL1709289

Cust Part No :  
 Bundle : CUSTOMER SIZE /CONDITION /QUANTITY /GROSS WEIGHT /TAG MARKING / WO.NO. / SPEC &  
 Tagging : GRADE /DESTINATION / BUNDLE NO /COUNTRY OF ORIGIN.  
 Tube Marking : P.O.NO. /TPI-ED /SIZE /SPEC /CONDITION/ TAG MARKING/ HEAT NO. /MADE IN INDIA.  
 P. Uom : Inches  
 Size : 0.875" OD X 0.635" ID X 0.120" WT X 20'- 24' R/L

Quantity In : 18290.682 Ft

## LADLE ANALYSIS :

Process	Heat No.	%C	%Mn	%P	%S	%Si	%Al	%Cr	%Ni	%Cu	%NiO
Min	17202415	.18	.3								
Max		.23	.6	.035	.035						
Obs		.191	.507	.007	.004	.008	.035				

## Full Section Longitudinal Tensile Test at Room Temp

Test	Heat No.	Y.S	T.S	Elong.
Min		379	448	10
Max				
		MPA	MPA	%
OBS	17202415	447.09	525.99	24

## Rock well Roughness

Hardness	OD	ID
75		
HRB		
82		-

## Dimensions in : Inches

Spec	OD	ID	WT	Len
Min	.875	.63		240
Max	.88	.635		288
OBS-Min	.877	.631	0	267.283
OBS-Max	.879	.633	0	284.016

## Technological Tests :

Test	Spec	Result
Crushing		-
Flaring		-
Flattening		-
Flanging		-
Rev. Flang.		-
Elong. Gaug. Len		

## Non-Destructive Tests :

Test	Spec	Result
Straightness	0.76/1000 MM MAX	0.30 / 1000
Eddy Current	100	100% TESTED OK
Visual		DEFECT FREE
Ultrasonic Test		-
Application Testing		

This is to certify that the goods are supplied as per the purchase order and specification Requirements

Prepared by : N. Arun  
 Quality Shift Incharge Signature:

for Tube Investments of India  
 Unit: Tube Products of India

Mathavan.M  
 Mgr-Quality-IBP-TP

TPI 78/120

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

SPECIFICATION: ASTM A513 TYPE 5

PART NUMBER: MT-A513-T-[D.DDD][W[T.TTT]

WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES

WHERE T.TTT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW RELEASE	17-855	17.09.08	VM	WM
B	TYPE 5 ADDED, TEMPLATE UPDATED	17-790	17.12.13	VM	ML

<b>DART</b> AEROSPACE		ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)	
PART NO.		MT-A513-T	
TOLERANCES UNLESS OTHERWISE SPECIFIED: DIMENSIONS & FINISHES DIMENSIONS APPLY AFTER FINISHING		SCALE: NTS	
DESIGNED BY: VM 17/12/13		TOLERANCES:	
DRAWN BY: ML 12/13/2017		FRACTIONS ± 1/8	
CHECKED BY: ML 12/20/2017		SURFACE	
APPROVED BY: ML 12/20/2017		ROUGHNESS	
APPROVED BY: ML 12/20/2017		SHEET 1 OF 1	
THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED ONLY FOR THE PURPOSES FOR WHICH IT WAS ISSUED. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-AS13-T-0.8750W0.120

PO / BATCH NO.: P0040267/S089470

DATE: 18/07/06

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.8750"

QUANTITY RECEIVED: 107 ft

THICKNESS RECEIVED: 0.8750"

QUANTITY INSPECTED: 107 ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N	ASTM A 513 Type 5
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	MT: 17202415
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT/PO</u>	SIGNED OFF BY: _____		
DATE: <u>18/07/06</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in